

ADDITIONS TO THE VASCULAR FLORA OF WYOMING

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ABSTRACT.— Eight species previously unreported for Wyoming are listed. A range extension is noted for *Erigeron humilis*, and *Cymopterus bipinnatus* is verified as occurring in Wyoming.

Recent field work has resulted in the addition of eight taxa to the vascular flora of Wyoming. The arctic-alpine species *Erigeron humilis* Grah. is reported for the first time outside the Bighorn Mountains in Wyoming. In addition, Dorn's report (1977) of the occurrence of *Cymopterus bipinnatus* Wats. in Wyoming is confirmed.

APIACEAE

Cymopterus bipinnatus Wats. Wyoming, Lincoln Co., 6.4 km W of Kemmerer (T21N R116W S7), 2148 m, 10 Jun 1946, H. Ripley & R. Barneby 7874, NY; ca 16 km N of Kemmerer, 2194 m, 9 May 1973, S. Waite & K. Harper s.n., UC; 19.2 km SW of Diamondville (T19N R118W S1), 2133 m, 6 Jul 1983, R. Hartman 15739, RM. Park Co., ca 1.6 km S of Trough Spring, NW side of Rattlesnake Mountain (T54N R104W S35 SW¼), 2590 m, 27 Jun 1980, E. Evert 1912, MOR, RM; 64 km E of Cody (T52N R107W S22,28), ca 2042 m, 22 Jun 1983, M. Lavin 4428, RM, UC. Fremont Co., ca 12.8 km NE of Dubois (T42N R106W S12 NE¼), 2500 m, 8 Jun 1981, D. Rizor & D. Jones 77, RM. These records confirm Dorn's report (1977) of the occurrence of this species in Wyoming.

ASTERACEAE

Centaurea cyanus L. Wyoming, Park Co., along Rt. 14 ca 1.3 km W of Wapiti (T52N R105W S23 SW¼), 1735 m, 19 Sept 1982, E. Evert 5079, RM. First report for Wyoming.

Erigeron humilis Grah. Wyoming, Park Co., Absaroka Range, at the head of Canyon

Creek, ca 10 km S of Rt. 14 (T51N R106W S24 NE¼), 3172 m, 14 Jul 1981, E. Evert 3173, RM; E side of Buttress Mountain, ca 8 km N of Rt. 14 (T53N R108W S35 SW¼), 3142 m, 28 Jul 1981, E. Evert 3313, RM; SW side of Whirlwind Peak, ca 11 km N of Rt. 14 (T53N R108W S16 SE¼), 3172 m, 6 Aug 1981, E. Evert 3428, MOR, RM. This arctic-alpine species was previously known in Wyoming from two collections in the Bighorn Range (Lofgren 1956). The collections from the Absaroka Range reported here are 225 km west of the Bighorn Range.

BORAGINACEAE

Cryptantha spicilifera (Piper) Payson. Wyoming, Park Co., W ridge leading to the summit of Heart Mountain (T54N R102W S8), 1891 m, 1 Jul 1981, R. Hartman 13378, RM. Park Co., summit of Cedar Mountain, ca 8 km W of Cody (T52N R102W S8 NW¼), 2379 m, 7 Jul 1981, E. Evert 3013, RM. First reports for Wyoming.

CAMPANULACEAE

Campanula rapunculoides L. Wyoming, Park Co., along Rt. 14 ca 0.4 km E of Gunbarrel Creek (T52N R107W S30 SW¼), 1951 m, 15 Sept 1982, E. Evert 5015, RM. First report for Wyoming.

EQUISETACEAE

Equisetum sylvaticum L. Wyoming, Sheridan Co., Bighorn Range, along Sawmill Pass-Red Grade Rd. ca 0.2 km W of Preacher Rock (T54N R86W S31 NW¼), 2501 m,

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26 Jul 1982, *E. Evert 4470*, MOR, RM. Crook Co. (T51N R60W S33 NE $\frac{1}{4}$), 1800 m, 27 Jul 1982, *R. Dorn 3777*, RM. First reports for Wyoming.

LAMIACEAE

Mentha spicata L. Wyoming, Park Co., 0.4 km N of Rt. 14 along Aspen Creek (T52N R107W S23 NE $\frac{1}{4}$), 1981 m, 15 Sept 1981, *E. Evert 3356*, RM. First report for Wyoming.

MORACEAE

Morus alba L. Wyoming, Park Co., Shoshone Canyon, ca 100 m E of Buffalo Bill Dam (T52N R103W S1 SE $\frac{1}{4}$), 1586 m, 29 May 1980, *R. Hartman 11299*, RM. Same location, 1 Jul 1982, *E. Evert 4087*, MOR, RM. First reports for Wyoming.

POACEAE

Hordeum distichon L. Wyoming, Sheridan Co., Whitney Coal Site (T58N R83W S31), 1081 m, 15 Jul 1977, *Brink 1414*, RM. Sweet-

water Co., ca 32 km NW of Green River (T20N R109W S16), 1891 m, 11 Jul 1978, *R. Smith 15*, RM. Park Co., along Rt. 14 ca 0.4 km W of Buffalo Bill Dam (T52N R103W S12 NE $\frac{1}{4}$), 1647 m, 6 Aug 1982, *E. Evert 4680*, RM. Park Co., along Rt. 14 ca 0.4 km E of Goff Creek (T52N R108W S23 NE $\frac{1}{4}$), 1952 m, 15 Sept 1982, *E. Evert 4999*, MOR, RM. First reports for Wyoming.

ROSACEAE

Sanguisorba minor Scop. Wyoming, Sheridan Co., Wildlife Refuge ca 5 km W of Dayton, 1403 m, 30 Jun 1979, *R. Hartman 9873*, RM. Park Co., along Rt. 14 at Blackwater Picnic area (T52N R107W S21 SW $\frac{1}{4}$), 1882 m, 27 Jun 1982, *E. Evert 4033*, RM. First reports for Wyoming.

LITERATURE CITED

- DORN, R. D. 1977. Manual of the vascular plants of Wyoming. Garland Publishing Inc., New York.
- LOFGREN, L. C. 1956. Alpine flowering plants of the Cloud Peak-Cliff Lake area, Bighorn County, Wyoming. Unpublished thesis. University of Wyoming, Laramie.